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CATALOG CODE : C-PELA-E0108/2012.12/1st Edition

Total solutions for Movement

PASSENGER ELEVATORS

Moving solutions with safety, reliability and efficiency

U.S.A / CANADA

HYUNDAI ELEVATOR

Hyundai Elevator, an affiliated company of Hyundai Group, offers its products in more than 50 countries such as the United States, Canada, Japan, Europe, East/West Asia, the Middle East and is recognized for excellence in quality. Hyundai elevators and escalators are known for their exceptional comfort, safety and energy efficiency.

Hyundai Elevator Head Office_The World Class Elevator Test Tower (Hyundai Asan Tower) stands in Icheon, Korea

Company Profile

Incorporated : May 23, 1984
Number of Employees : 1,304(As of September, 1, 2012)

Factory

In our 11.5acre(46,484m²) state of the art facility we manufacture products including elevators, logistics automation systems, parking systems, and platform screen doors.

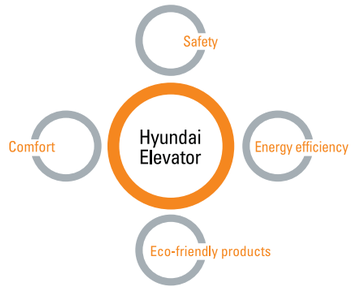
R&D Center

R & D Center was established in 1986 and employs over 100 employees and is the core of our new product development.

Test Tower

Standing 672ft(205m) high, our ultra- high speed test tower, named the Hyundai Asan Tower, was completed in April 2009 and is used to test for vibration, noise, pressure, as well as the reliability and safety of the parts and components related to ultrahigh speed systems.

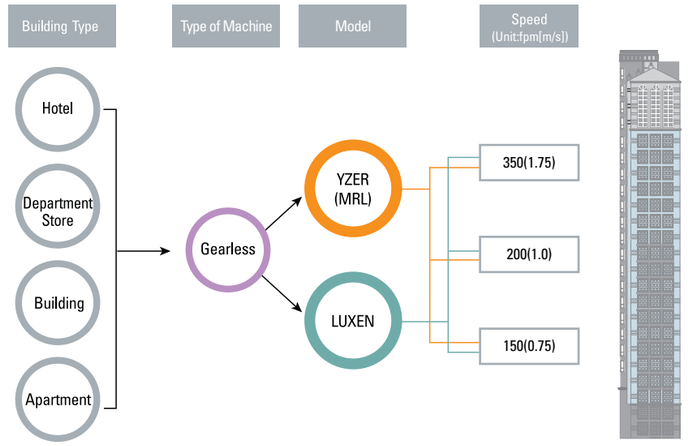
At the Hyundai Asan Tower, you will find the world's fastest elevator running at speeds up to 3600fpm(18m/sec), as well as the 2000fpm(10m/sec), high speed double deck elevator, and the world's fastest 1400fpm(7m/sec) high speed observation elevator.



Contents

(Selection of elevator speed)

The selection of elevator speed/model should be made in consideration of the building type, size, use and the anticipated passenger carrying capacity at peak traffic times.



*MRL: Machine-room-less

Machine-room-less elevators (YZER)

The machine roomless elevator YZER is a revolutionary new elevator that eliminates the need for a rooftop machine room through the use of miniaturized traction machines and control panels, allowing increased space utilization, resolution of height and sunlight restriction issues, and more freedom in installation layout and skyline design.

YZER
MRL ELEVATOR

Increased space efficiency

A revolutionary new elevator that maximizes space efficiency through the use of smaller operating and control components that can be installed to the side of the door or in the hoistway, eliminating the need for a separate rooftop machine room.

Flexible hoistway layout and skyline design

Provides enhanced flexibility in hoistway layout, and more freedom in building roof line design with the elimination of the conventional penthouse type machine room.

Reduced building cost

Costs are reduced by eliminating the need for machine room construction and installation.

Compact gearless traction machine

By using a gearless traction machine with permanent magnet synchronous motor, the YZER provides a smoother ride, improved energy savings, and environmentally friendly features.

Medium speed gearless elevators (LUXEN)

The LUXEN incorporates a high quality gearless traction machine to a mid/low speed elevator, resulting in highly efficient controls and energy savings. Also, continuous noise and vibration analysis have resulted in increased passenger comfort and a quiet and pleasant ride.

LUXEN
Digital Gearless

Outstanding passenger experience

Gearless traction machine provides a quality ride with the least noise and vibration from the gear mechanism and ropes delivering a smooth and comfortable passenger experience.

Energy efficiency

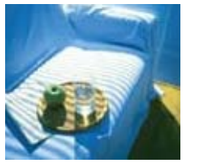
Gearless traction machine with permanent magnet synchronous motor increases energy efficiency.

Spacious car Interior

High ceiling provides a spacious and comfortable experience.

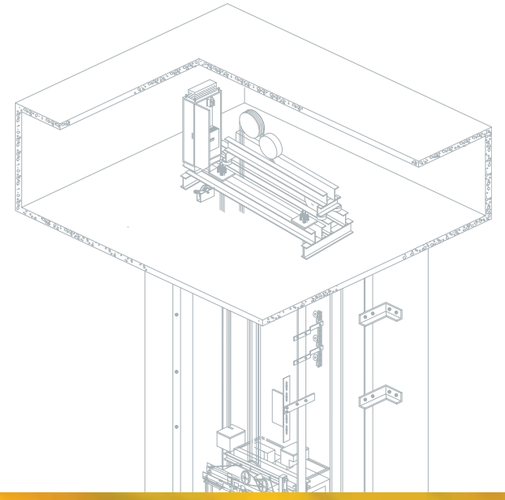
Eco-friendly

Environmentally-friendly elevator that does not need regular gear oil replacement.



Gearless Traction Machine

With the use of gearless traction machine, smoother ride, improved energy-saving, and environment-friendly features are enhanced.



+ Improved energy savings

Gearless traction machines with permanent magnet synchronous motors provide up to 60% energy savings compared to hydraulic elevators.

+ Comfortable ride

Noise and vibration level has decreased dramatically and car ride has improved significantly with the use of gearless traction machines with permanent magnet synchronous motors thanks to the lack of tooth gear and rope swing.

+ Environment-friendly components

Gearless traction machine is environment-friendly since gear oil is not required.

+ Reduced installation space

It can save the building space as it needs smaller machine room space than the conventional.

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD251A / Painted Steel(P022), Acryl, Convective Air Sterilization System
Wall	Painted Steel(P017), Entrance column(Painted Steel P017)
Handrail	1E / Stainless 1 Pipe + Bracket
Car Doors	Painted Steel(P017)
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640T / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Painted Steel(P017)
Jamb	Painted Steel(P017) / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD329B / Painted Steel(P023), Skylite 10T
Wall	Painted Steel(P016), Stainless Mirror(#8), Entrance column(Painted Steel P016)
Handrail	1E / Stainless 1 Pipe + Bracket
Car Doors	Painted Steel(P016)
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640R / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Painted Steel(P016)
Jamb	Painted Steel(P016) / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD219A / Painted Steel(P022), Skylite 10T
Wall	Stainless Hairline(#4), Entrance Column(Stainless Hairline #4)
Handrail	FL / Stainless Hairline(#4)
Car Doors	Stainless Hairline(#4)
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640T / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Stainless Hairline(#4)
Jamb	Stainless Hairline(#4) / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)
Indicator	HIPU-D310 / Stainless Hairline(#4)

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD299B / Painted Steel(P023), LED Light, LED Down Light, Skylite 10T, Lon Air Filter
Wall	Stainless Hairline(#4), Stainless Hairline(#4) Etching(SE2302), Entrance Column(Stainless Hairline #4)
Handrail	1E / Stainless 1 Pipe + Bracket
Car Doors	Stainless Hairline(#4)
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640T / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Stainless Hairline(#4) Etching(SE2302)
Jamb	Stainless Hairline(#4) / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)
Indicator	HIPU-D310 / Stainless Hairline(#4)

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD251A / Painted Steel(P022), Acryl,
	Convective Air Sterilization System
Wall	Stainless 2B Vibration Steel, Stainless Mirror Trim(30mm),
	Entrance Column(Stainless 2B Vibration Steel)
Handrail	1E / Stainless 1 Pipe + Bracket
Car Doors	Stainless 2B Vibration Steel
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640T / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Stainless 2B Vibration Steel
Jamb	Stainless 2B Vibration Steel / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)
Indicator	HIPU-D310 / Stainless Hairline(#4)

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD251A / Painted Steel(P022), Acryl,
	Air-Sterilization System
Wall	Stainless Hairline(#4), Stainless Mirror(#8),
	Entrance Column(Stainless Hairline #4)
Handrail	FL / Stainless Hairline(#4)
Car Doors	Stainless Hairline(#4)
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640T / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Stainless Hairline(#4)
Jamb	Stainless Hairline(#4) / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)
Indicator	HIPU-D310 / Stainless Hairline(#4)

| FRONT VIEW |

| REAR VIEW |

| ENTRANCE |

CAGE DESIGN

Ceiling	CD329B / Skylite 10T, Painted Steel(P022),
	LED Downlight
Wall	Stainless 2B Vibration, Stainless Mirror Trim(30mm),
	Entrance Column(Stainless 2B Vibration)
Handrail	1E / Stainless 1 Pipe + Bracket
Car Doors	Stainless 2B Vibration
Operating Panel	Push Button *Sub O.P. is optional
Car Lantern	CLSU-640T / Stainless Hairline(#4)
Flooring	Marble(By Others)

ENTRANCE

Door	Stainless 2B Vibration
Jamb	Stainless 2B Vibration / AJP150 Type
Hall Button	HPBU-230BK / Stainless Hairline(#4)
Indicator	HIPU-D310 / Stainless Hairline(#4)

Ceiling

CD219A
Painted Steel(P022), Skylite 10T

CD251A
Painted Steel(P022),
Acrylic, Convective Air Sterilization System

CD299B
Painted Steel(P023), LED Light,
LED Down Light, Skylite 10T

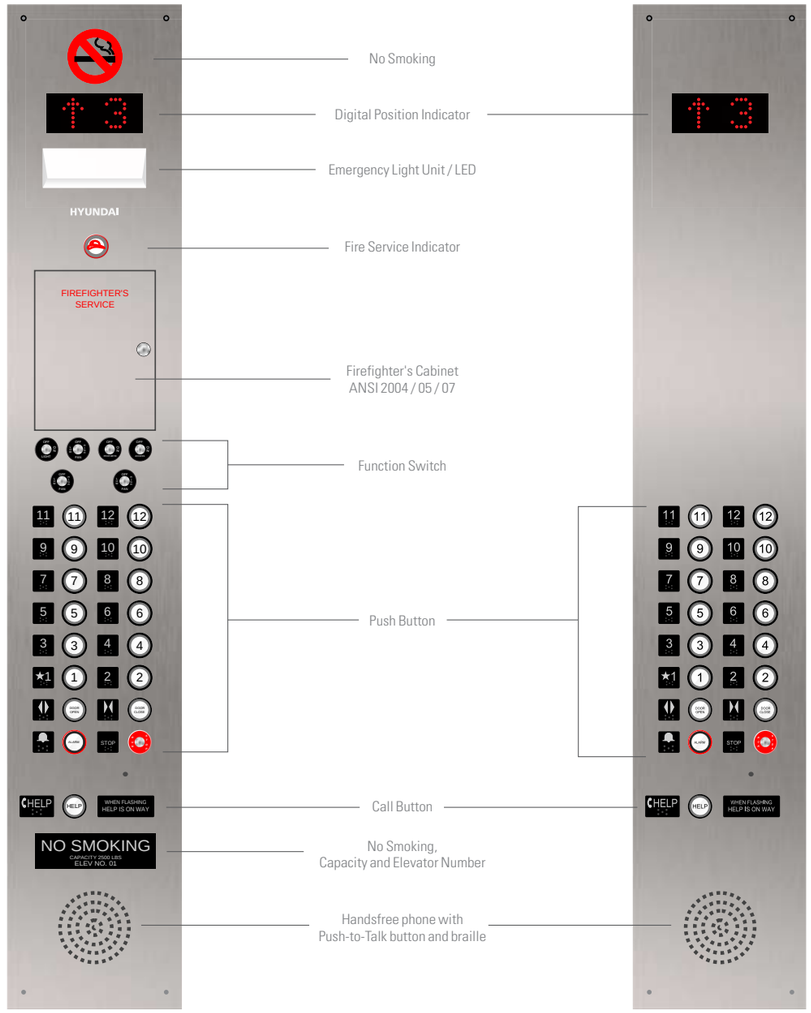
CD329B
Painted Steel(P022), Skylite 10T,
LED Down Light

Handrail

1E (1 Pipe Stainless)

FL (Stainless Hairline Flat Bar)

Operating Panels



MAIN

SUB
(Optional)

Note : At least one 'No Smoking' sign is required. Two or more 'No Smoking' sign is optional.

Hall Buttons

HPBU- 230B

HPBU- 230BK

Hall Position Indicator

HPIU - D310

Hall Lantern

HLSU- 640R

HLSU- 640T

Car Lantern

CLSU- 640R

CLSU- 640T

Painted Steel

P016 (9.9YR 5.0/3.1)

P019 (5.1Y 7.6/1.1)

P020 (Metallic Gold)

P021 (Metallic Silver)

P022 (Black)

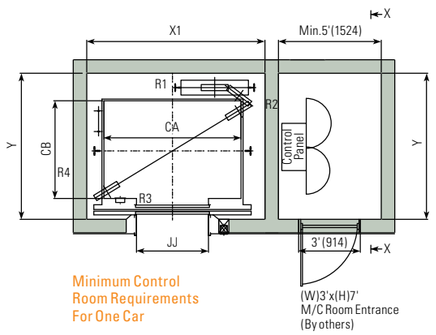
P023

Standard & Optional Features

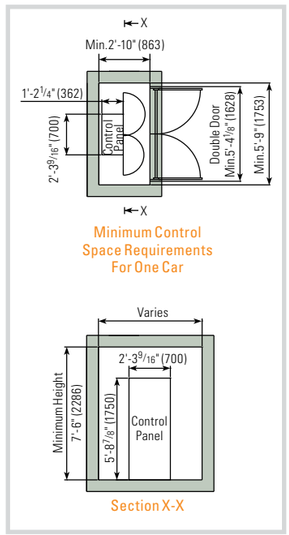
Items	Descriptions	Marks
1) Selective collective	The first call determines the direction of the elevator. All calls opposing the respective direction are serviced after carrying out by the calls of the respective direction.	○
2) Duplex selective collective	2 units of elevator provide the effective service for the common hall calls.	★
3) Automatic bypass	When a car is 80% loaded, it will automatically bypass all hall calls as the bypass load weighing device is activated.	○
4) Arrival Voice	It provides an audible indication in the car that an elevator is about to arrive.	○
5) Signal fixtures	Dot matrix type(moving direction) Hall lantern	○ ★
6) Single-side safety edge of door	Contact with a passenger or inanimate object causes the doors to stop and reopen automatically. The elevator doesn't start if the door is not completely closed.	○
7) Ventilation fan	Car ventilation is smooth with ventilation fan built-in the ceiling.	○
8) Emergency car lighting	In case of a power failure, it automatically turns on the emergency light in the car.	○
9) Automatic interruption of light and ventilation fan	The lights and ventilation fan are automatically turned off to save energy if there is no call registered for a period of time. If there is a call registered again, it works again.	○
10) Car door interlock switch	When the door is opened, the switch installed at the door operator is activated and keeps the car from moving. During the operation of car, it locks the door completely so as not to open the door from out side.	○
11) Overload features	To protect the overload of an elevator, this device sounds a buzzer and the elevator remains stopped at that floor when the number of passengers exceeds the rated capacity. When the excess number of passengers get out of the car, the buzzer stops and the elevator door closes.	○
12) Safety drive	During the operation if the car stops between floors, and safety device doesn't work, the car automatically moves to the nearest floor with the low speed. Then, it opens the door to allow the passengers to exit off.	○
13) Multi-beam door protection	Multi-beam from the top to the bottom of the door senses any obstruction caught in the door. It makes the door reopen and stay open until the obstruction is removed.	★
14) Fire emergency service	When a fire breaks out, all cars activated by the switch or fire detector are immediately called to a specified rescue floor for the passenger's safety.	★
15) Anti-nuisance	Evaluates the number of people on the car and compares that value to the number of the car calls registered. If the number of car calls exceeds the number of people in the car by the load sensor, the car call exceeding the number of passengers will be cancelled after service nearest call only.	★
16) Voice synthesizer	A voice synthesizer with microprocessor makes announcements to inform passengers of various conditions, including landing floor and operation direction, etc.	○
17) Fireman's emergency service	When the fireman's switch located at the main floor lobby and operating panel on the car is activated during a fire or other emergency, a designated car can be called back to a specified floor for fire fighting service.	★
18) HELMON (Hyundai Elevator Computer Monitoring) System	This system has various functions, like elevator monitoring and control by a personal computer and modem.	★
19) Attendant service	It is activated when the attendant turns on the ATT switch in the car operating panel to "ON" position.	★
20) Earthquake operation	When the seismic sensor detects and earthquake that exceeds a predetermined level, all cars promptly proceed to land at the nearest floor and park with the doors open to allow passengers to exit out safely.	★
21) Parking	With the use of the parking switch on the hall button, the car can be parked at a specified floor, during nights and holidays.	★

Notes : 1. ○ : Standard, ★ : Optional
2. Consult Hyundai Elevator if you need the specific features except the above items.

Plan of Hoistway

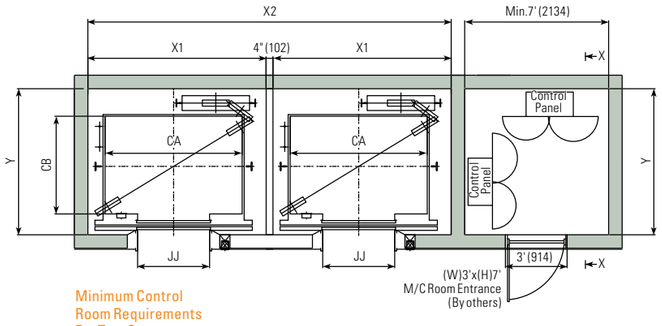


Minimum Control
Room Requirements
For One Car

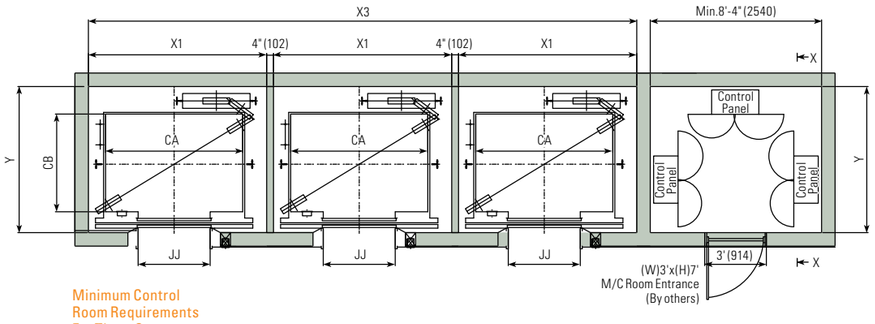


Minimum Control
Space Requirements
For One Car

Section X-X

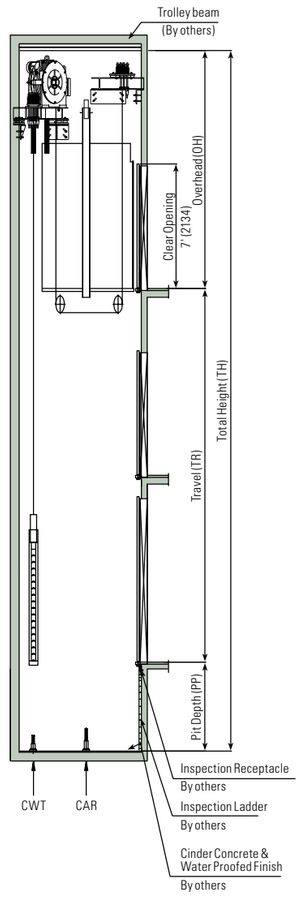


Minimum Control
Room Requirements
For Two Car



Minimum Control
Room Requirements
For Three Car

Section of Hoistway



Standard Dimensions

Unit : feet-inch(mm)

Rated Speed fpm (mpm)	Door Type	Capacity	Clear Opening	Car inside Clear Dimensions		Minimum Hoistway Dimensions				
						1 Car	2 Cars	3 Cars	Depth	
		Lbs (kg)	OP (mm)	CA (mm)	CB (mm)	X1 (mm)	X2 (mm)	X3 (mm)	Y (SO) (mm)	Y (CO) (mm)
150/200 (45/60)	SS: Single Slide	2100 (953)	3'-0" (914)	5'-8" (1727)	4'-3" (1295)	7'-7" (2311)	15'-6 1/16" (4726)	23'-5 1/8" (7141)	6'-6" (1981)	6'-7" (2007)
350 (105)										
150/200 (45/60)	SS: Single Slide CO: Center Open	2500 (1134)	3'-6" (1067)	6'-8" (2032)		8'-7" (2616)	17'-6" (5334)	26'-5" (8052)		
350 (105)										
150/200 (45/60)		3000 (1361)	3'-6" (1067)		4'-9" (1448)				7'-0" (2134)	7'-1" (2159)
350 (105)										
150/200 (45/60)		3500 (1588)	3'-6" (1067)		5'-5" (1651)				7'-8" (2337)	7'-9" (2362)
350 (105)										

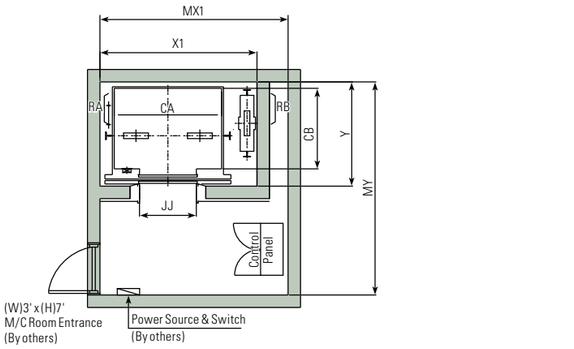
Notes : 1. Speed : 150/200fpm(45/60mpm), 350fpm(105mpm)
2. Maximum travel : 200'(200fpm) or 245'(350fpm)
3. Max number of stops : 20(200fpm) or 24(350fpm)
4. Car height 8'(2438mm) Standard, 9'(2743mm), 10' (3028mm) Optional
5. Entrance height : 7'(2134mm) Standard
6. Machine is located at the top and off to the side.
7. Double door not available.

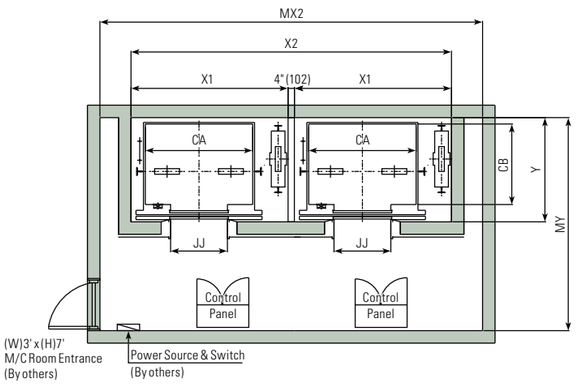
Unit : feet-inch(mm)

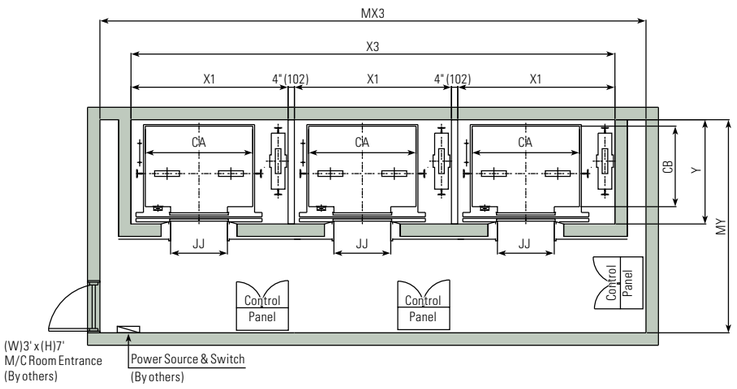
Rated Speed fpm (mpm)	Capacity	Overhead	Pit	Pit Reaction		M/C Room Reaction					
						Reaction Force (kN)				Suspension Load (kN)	
	Lbs (kg)	OH (mm)	PP (mm)	CAR (kN)	CWT (kN)	R1	R2	R3	R4	Trolley1 (TM)	Trolley2 (CAR)
150/200 (45/60)	2100 (953)	13'-9" (4191)	5'-0" (1524)	71	57	65	65	14	24	20	66
350 (105)		14'-6" (4420)	5'-5" (1651)	91	73						
150/200 (45/60)	2500 (1134)	13'-9" (4191)	5'-0" (1524)	81	64	70	70	15	26	20	72
350 (105)		14'-6" (4420)	5'-5" (1651)	104	82						
150/200 (45/60)	3000 (1361)	13'-9" (4191)	5'-0" (1524)	90	70	76	76	16	27	20	79
350 (105)		14'-6" (4420)	5'-5" (1651)	115	89						
150/200 (45/60)	3500 (1588)	13'-11" (4242)	5'-3" (1600)	86	65	78	78	17	29	20	84
350 (105)		14'-6" (4420)	5'-7" (1702)	127	96						

Notes : 1. If occupied spaced exists below the hoistway, Consult Hyundai Sales Engineer.
2. All dimensions are based on 8'- 0" cage with 7'-0" entrance door height.
3. Higher car height may affect overhead(OH) dimension.
4. For seismic zones, add 1" (26mm) to dimension X1.
5. When selecting the trolley beam, safety factor needs to be at least level 4.

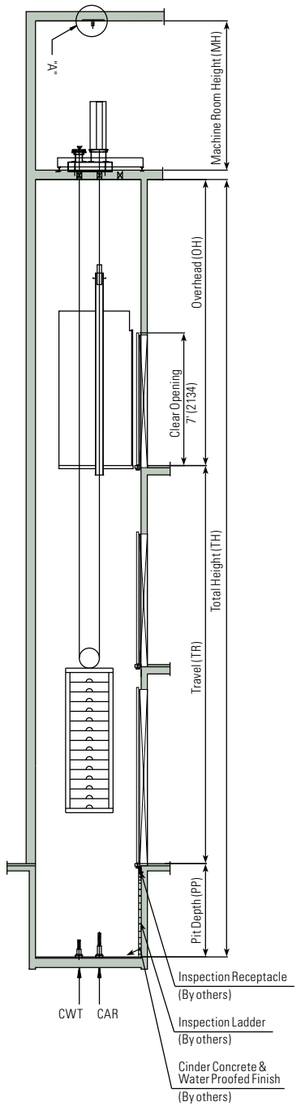
Plan of Hoistway & Machine Room







Section of Hoistway



Standard Dimensions

Unit : feet-inch(mm)

Rated Speed fpm (mpm)	Capacity	Door Type	Clear Opening	Car Inside Clear Dimension		Minimum Hoistway Dimension					Minimum Machine Room Dimension			
						1 Car	2 Cars	3 Cars	Depth		1 Car	2 Cars	3 Cars	Depth
	Lbs (kg)		OP (mm)	CA (mm)	CB (mm)	X1 (mm)	X2 (mm)	X3 (mm)	Y (SO) (mm)	Y (CO) (mm)	MX1 (mm)	MX2 (mm)	MX3 (mm)	Y (mm)
150/200 (45/60)	2100 (953)	SS: Single Slide	3'-0" (914)	5'-8" (1727)	4'-3" (1295)	8'-3 1/2" (2527)	16'-11" (5156)	25'-6 1/2" (7785)	5'-6" (1676)	5'-7 3/16" (1707)	9'-3 1/2" (2832)	18'-11" (5766)	27'-6 1/2" (8395)	10'-6" (3200)
350 (105)														
150/200 (45/60)	2500 (1134)	SS: Single Slide CO: Center Open	3'-6" (1067)	6'-8" (2032)		9'-3 1/2" (2832)	18'-11" (5766)	28'-6 1/2" (8700)			10'-3 1/2" (3137)	20'-11" (6376)	30'-6 1/2" (9309)	
350 (105)														
150/200 (45/60)	3000 (1361)				4'-9" (1448)	9'-3 1/2" (2832)	18'-11" (5766)	28'-6 1/2" (8700)	6'-0" (1829)	6'-11 1/4" (1860)	10'-3 1/2" (3137)	20'-11" (6376)	30'-6 1/2" (9309)	11'-0" (3353)
350 (105)														
150/200 (45/60)	3500 (1588)				5'-5" (1651)				6'-8" (2032)	6'-9 1/4" (2063)				11'-8" (3556)
350 (105)														
150/200 (45/60)	4000 (1814)	CO: Center Open	4'-0" (1219)	7'-8" (2337)		10'-3 1/2" (3137)	20'-11" (6376)	31'-6 1/2" (9614)			11'-3 1/2" (3442)	22'-11" (6985)	33'-6 1/2" (10224)	
350 (105)														

Notes : 1. Speed : 150/200fpm(45/60mpm), 350fpm(105mpm)
2. Maximum travel : 200'(200fpm) or 245'(350fpm)
3. Max number of stops : 20(200fpm) or 24(350fpm)
4. Car height 8'(2438mm) Standard, 9'(2743mm), 10' (3028mm) Optional
5. Entrance height : 7'(2134mm) Standard
6. Front and rear double door available ('CWT at side' configuration only)

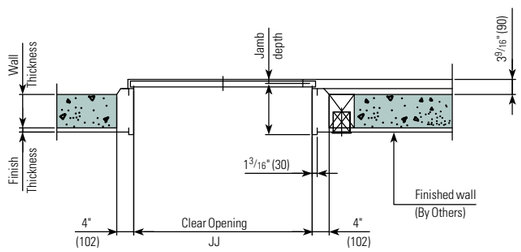
Unit : feet-inch(mm)

Rated speed fpm (mpm)	Capacity	Overhead	Pit	Pit Reaction		M/C Room Reaction	
	Lbs (kg)	OH (mm)	PP (mm)	CAR (kN)	CWT (kN)	RA (kN)	RB (kN)
150/200 (45/60)	2100 (953)	14'-1" (4293)	5'-3" (1600)	70	56	58	105
350 (105)		14'-7" (4445)	5'-6" (1676)	90	72		
150/200 (45/60)	2500 (1134)	14'-1" (4293)	5'-3" (1600)	82	65	60	113
350 (105)		14'-7" (4445)	5'-6" (1676)	104	83		
150/200 (45/60)	3000 (1361)	14'-1" (4293)	5'-3" (1600)	91	70	66	122
350 (105)		14'-7" (4445)	5'-6" (1676)	116	90		
150/200 (45/60)	3500 (1588)	14'-1" (4293)	5'-3" (1600)	86	65	70	129
350 (105)		14'-7" (4445)	5'-6" (1676)	127	97		
150/200 (45/60)	4000 (1814)	14'-1" (4293)	5'-3" (1600)	95	72	73	138
350 (105)		14'-7" (4445)	5'-6" (1676)	141	106		

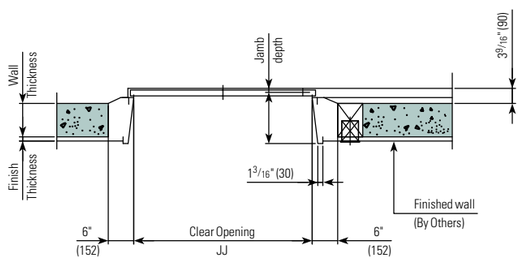
Notes : 1. If occupied spaced exists below the hoistway, Consult Hyundai Sales Engineer.
2. All dimensions are based on 8'0" cage with 7'-0" entrance door height.
3. Higher cage Height may affect overhead(OH) dimension.
4. For seismic zones, add 2"(51mm) to dimension X1.
5. Max. Travel is 75m.

Single Slide Door

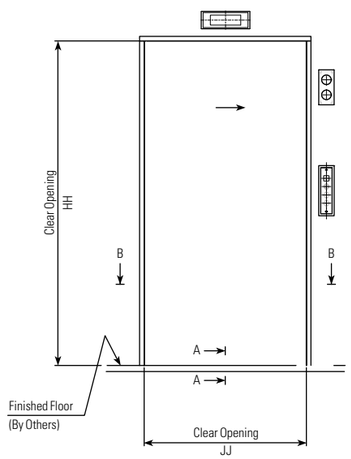
AJP150
(Wide Straight & Bolted)
Standard Door Frame (Jamb)



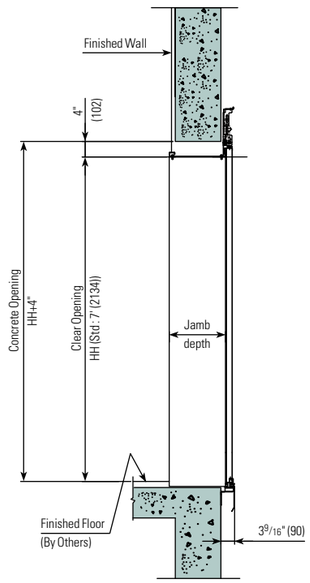
AJP150S
(Wide Angled & Bolted)
Standard Door Frame (Jamb)



Single Slide Door
(Section B-B)



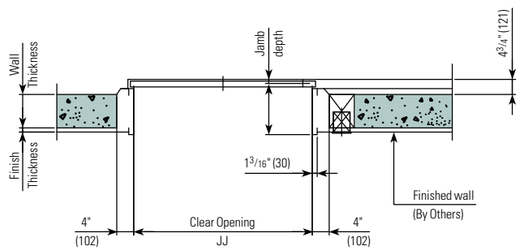
Note : Jamb depth Maximum is 11 3/4"(300mm).



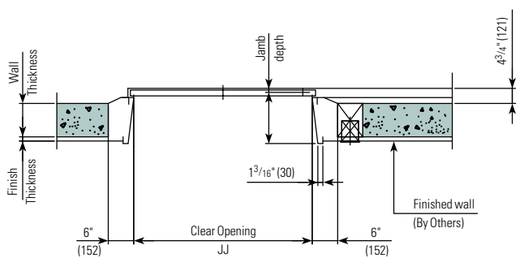
Single Slide Door
(Section A-A)

Center Open Door

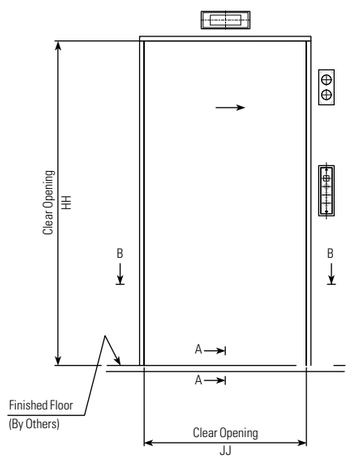
AJP150
(Wide Straight & Bolted)
Standard Door Frame (Jamb)



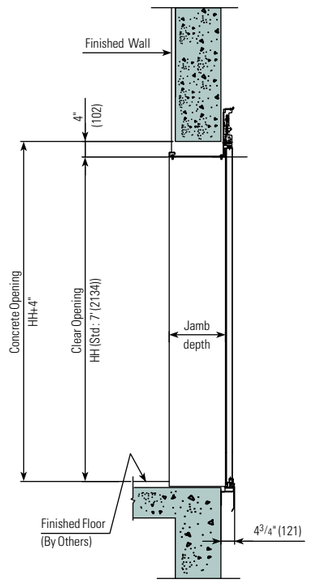
AJP150S
(Wide Angled & Bolted)
Standard Door Frame (Jamb)



Center Open Door
(Section B-B)



Note : Jamb depth Maximum is 11 3/4"(300mm).



Center Open Door
(Section A-A)

Power Feeder Data

YZER(Machine-Room-Less Elevators) 150~350fpm [45~105m/min]

Capacity (Lbs)	Rated Speed fpm (mpm)	Motor (kw)	1 Car		2 Cars		MCCB (A)		Power Supply (KVA)	
			FLU (A)	FLAcc (A)	FLU (A)	FLAcc (A)	1 Car	2 Cars	1 Car	2 Cars
2100	150/200 (45/60)	5.9	11.5	23.0	23.0	46.0	20	30	6	11
	300(90)	8.8	20.0	40.0	40.0	80.0	20	40	9	17
	350(105)	10.3	20.0	40.0	40.0	80.0	30	50	11	19
2500	150/200 (45/60)	7.0	13.5	27.0	27.0	54.0	20	30	7	13
	300(90)	10.5	23.5	47.0	47.0	94.0	30	50	11	20
	350(105)	12.2	23.5	47.0	47.0	94.0	30	50	13	23
3000	150/200 (45/60)	8.4	17.5	35.0	35.0	70.0	20	40	9	16
	300(90)	12.5	27.0	54.0	54.0	108.0	30	50	13	24
	350(105)	14.6	27.0	54.0	54.0	108.0	30	60	15	28
3500	150/200 (45/60)	9.9	20.0	40.0	40.0	80.0	30	50	10	19
	300(90)	14.8	31.0	62.0	62.0	124.0	30	60	16	28
	350(105)	17.3	31.0	62.0	62.0	124.0	40	70	18	33

LUXEN(Gearless Elevators) 150~350fpm [45~105m/min]

Capacity (Lbs)	Rated Speed fpm (mpm)	Motor (kw)	1 Car		2 Cars		MCCB (A)		Power Supply (KVA)	
			FLU (A)	FLAcc (A)	FLU (A)	FLAcc (A)	1 Car	2 Cars	1 Car	2 Cars
2100	150/200 (45/60)	5.9	11.5	23.0	23.0	46.0	20	30	6	11
	300(90)	8.8	20.0	40.0	40.0	80.0	20	40	9	17
	350(105)	10.3	20.0	40.0	40.0	80.0	30	50	11	19
2500	150/200 (45/60)	7.0	13.5	28.0	27.0	56.0	20	30	7	13
	300(90)	10.5	23.5	48.0	47.0	96.0	30	50	11	20
	350(105)	12.2	23.5	48.0	47.0	96.0	30	50	13	23
3000	150/200 (45/60)	8.4	17.0	35.0	34.0	70.0	20	40	9	16
	300(90)	12.5	27.0	55.0	54.0	110.0	30	50	13	24
	350(105)	14.6	27.0	55.0	54.0	110.0	30	60	15	28
3500	150/200 (45/60)	9.9	19.5	40.0	39.0	80.0	30	50	10	19
	300(90)	14.8	32.0	64.0	64.0	128.0	30	60	16	28
	350(105)	17.3	32.0	64.0	64.0	128.0	40	70	18	33
4000	150/200 (45/60)	11.3	22.0	45.0	44.0	90.0	30	50	12	21
	300(90)	16.9	36.0	72.0	72.0	144.0	40	70	18	32
	350(105)	19.8	36.0	72.0	72.0	144.0	40	70	21	38

Note : The values in the table above are based on 3 phase 480V.
FLU : Full load up current
FLAcc : Full load accelerating current

Works to be Done by Other Contractors

Hoistway

1. Hoistway must be constructed to the final layout drawings (LOD).
2. The location of attachment support for the top rail bracket is at a critical elevation called out on the hoistway LOD.
3. An overhead beam must be provided at the location indicated on the hoistway LOD and designed to support 7500lbs per elevator.
4. Provide a clear plumb hoistway with variations from the size shown on the Hyundai layout not to exceed -0"/+1" (25mm) and not less than the clear dimensions shown on the Hyundai LOD.
5. Provide a dry, properly framed, enclosed and vented hoistway in accordance with all applicable codes prior to the start of installation.
6. Front entrance wall at main and top landing, or landing below top landing if the controller is located there, is not to be constructed until or after all elevator equipment is installed in the hoistway.

Smoke Detectors

1. Provide smoke detectors, location as required, with wiring from the sensing devices to the controllers designated by Hyundai.
2. If sprinklers are installed in the hoistway or machine space, a means to automatically disconnect the main line power supply upon or prior to the application of water is required (unless prohibited by local code).

Pit

1. Pit floor must be designed to sustain vertical forces on car and counterweight rails and impact loads on car and counterweight buffers as shown on Hyundai LOD.
2. Pit must be clean and dry prior to start of installation.
3. Fixed ladders in each pit as required by governing code, size of pocket and location shown per Hyundai LOD
4. Lights must have an external guard and be located at a point where illumination on the pit ladder base is no less than 10 foot candles.

Electrical

1. Power Conditions
   1) Three phase: Provide a permanent three phase electrical feeder with separate grounding conductor terminating in controller either at the top landing or landing below before the start of the installation. Three phase, 480V, 50/60hz connection is required. If only three phase 208V is available, transformer to convert it to three phase 480V is required.
   2) Single Phase: Provide a permanent single phase electrical feeder with a separate grounding conductor terminating in the transformer located at the top of the hoistway before the start of the installation. 120V is required.
2. For temporary electrical connections, 480V, 50/60hz connection is required. If only 220V is available, transformer to convert it to three phase 480V is required and should be available at the start and throughout the elevator installation.
3. Provide a 125V, 15amp single phase branch circuit for the elevator car/light circuits at the start of the installation of the top stop.
4. Provide a permanent light fixture at the top of the hoistway. Illumination specifications and location of the light switches to Hyundai LOD.
5. Provide electrical power for lights, tools, welding, and hoisting, etc.
6. Provide one dedicated outside phone line per elevator. And it shall be terminated at the controller.

Barricades must meet OSHA minimum requirements.

1. Provide guarding and protection of the hoistway during construction.
2. Hoistway Barricades shall be constructed, maintained, and removed by others.
3. Provide a freestanding removable barricade at each hoistway opening at each floor.
4. barricades shall be 42" high, have centerboard and kickboard and withstand 200lbs of lateral force.
5. Provide full entrance screening/mesh in front of all hoistway entrances.

Elevator job site Requirements

1. Maintain the temperature and environment of the elevator hoistway and machine room between 41°F(5°C) to 104°F(40°C).
2. The following conditions are required for maintaining elevator performance.
   * The relative humidity shall be below 90% on monthly average and below 95% on a daily average.
   * The elevator hoistway shall be finished with mortar or other materials so as to prevent concrete dust.
3. Voltage fluctuation shall be within a range of +5% to -10%.
4. Contact your Hyundai Elevator representative for more information.